# Performance Data Sheet

## AEA1343AXA

## General Information

| | | | |
|---|---|---|---|
| **Model** | AEA1343AXA | **Refrigerant** | R-12 |
| **Test Condition** | ASHRAE | **Performance Test Voltage** | 115V ~ 60HZ |
| **Return Gas** | 32.2°C (90°F) RETURN GAS | **Motor Type** | RSIR |

## Performance Information

| Evap Temp (°F) | | Condensing Temperature (°F) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 80 | 90 | 100 | 110 | 120 | 130 | 140 |
| -40 | Btu/h | 233 | 201 | 173 | 147 | 119 | 87.9 | 51.4 |
| | Watts | 103 | 99.6 | 96.1 | 91.5 | 85.3 | 76.9 | 65.7 |
| | Amps | 1.98 | 1.99 | 1.98 | 1.96 | 1.93 | 1.89 | 1.84 |
| | Lb/h | 3.73 | 3.23 | 2.78 | 2.35 | 1.90 | 1.41 | 0.82 |
| -35 | Btu/h | 276 | 246 | 219 | 194 | 168 | 138 | 103 |
| | Watts | 110 | 108 | 106 | 102 | 97.4 | 90.6 | 81.3 |
| | Amps | 2.02 | 2.03 | 2.02 | 2.01 | 1.99 | 1.95 | 1.91 |
| | Lb/h | 4.43 | 3.95 | 3.52 | 3.11 | 2.69 | 2.22 | 1.66 |
| -30 | Btu/h | 323 | 295 | 269 | 245 | 220 | 192 | 158 |
| | Watts | 117 | 116 | 115 | 113 | 109 | 104 | 96.3 |
| | Amps | 2.06 | 2.07 | 2.07 | 2.06 | 2.04 | 2.02 | 1.98 |
| | Lb/h | 5.20 | 4.73 | 4.33 | 3.94 | 3.54 | 3.08 | 2.54 |
| -25 | Btu/h | 375 | 348 | 323 | 301 | 277 | 250 | 217 |
| | Watts | 125 | 125 | 124 | 123 | 121 | 117 | 111 |
| | Amps | 2.10 | 2.11 | 2.12 | 2.12 | 2.10 | 2.08 | 2.05 |
| | Lb/h | 6.04 | 5.59 | 5.20 | 4.83 | 4.45 | 4.02 | 3.50 |
| -20 | Btu/h | 432 | 405 | 382 | 360 | 338 | 312 | 281 |
| | Watts | 133 | 133 | 133 | 133 | 132 | 130 | 125 |
| | Amps | 2.14 | 2.16 | 2.17 | 2.17 | 2.16 | 2.15 | 2.13 |
| | Lb/h | 6.95 | 6.52 | 6.15 | 5.80 | 5.44 | 5.02 | 4.52 |
| -15 | Btu/h | 494 | 468 | 446 | 425 | 404 | 379 | 349 |
| | Watts | 141 | 142 | 143 | 144 | 144 | 142 | 139 |
| | Amps | 2.19 | 2.21 | 2.22 | 2.23 | 2.23 | 2.22 | 2.21 |
| | Lb/h | 7.96 | 7.54 | 7.19 | 6.85 | 6.50 | 6.10 | 5.62 |
| -10 | Btu/h | 562 | 537 | 515 | 495 | 475 | 451 | 422 |
| | Watts | 150 | 151 | 153 | 154 | 155 | 155 | 153 |
| | Amps | 2.24 | 2.26 | 2.28 | 2.29 | 2.30 | 2.30 | 2.29 |
| | Lb/h | 9.06 | 8.66 | 8.31 | 7.99 | 7.66 | 7.27 | 6.80 |
| -5 | Btu/h | 635 | 611 | 590 | 571 | 551 | 528 | 500 |
| | Watts | 159 | 161 | 163 | 165 | 167 | 168 | 167 |
| | Amps | 2.30 | 2.32 | 2.35 | 2.36 | 2.38 | 2.38 | 2.38 |
| | Lb/h | 10.3 | 9.87 | 9.54 | 9.23 | 8.91 | 8.54 | 8.08 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **0** | Btu/h | 715 | 692 | 672 | 653 | 634 | 612 | 584 |
| | Watts | 169 | 171 | 173 | 176 | 179 | 180 | 181 |
| | Amps | 2.36 | 2.39 | 2.42 | 2.44 | 2.46 | 2.47 | 2.48 |
| | Lb/h | 11.6 | 11.2 | 10.9 | 10.6 | 10.3 | 9.90 | 9.45 |
| **5** | Btu/h | 802 | 779 | 760 | 742 | 723 | 702 | 675 |
| | Watts | 180 | 182 | 184 | 188 | 191 | 193 | 195 |
| | Amps | 2.43 | 2.47 | 2.50 | 2.53 | 2.55 | 2.57 | 2.58 |
| | Lb/h | 13.0 | 12.6 | 12.3 | 12.0 | 11.7 | 11.4 | 10.9 |
| **10** | Btu/h | 896 | 874 | 855 | 838 | 820 | 798 | 772 |
| | Watts | 191 | 193 | 196 | 200 | 203 | 207 | 209 |
| | Amps | 2.51 | 2.55 | 2.59 | 2.62 | 2.65 | 2.67 | 2.69 |
| | Lb/h | 14.5 | 14.2 | 13.9 | 13.6 | 13.3 | 13.0 | 12.5 |

| COEFFICIENTS | CAPACITY | POWER | CURRENT | MASS FLOW |
|---|---|---|---|---|
| C1 | 1.305503E+03 | 2.564407E+02 | 1.890660E+00 | 2.107844E+01 |
| C2 | 1.586332E+01 | 3.060808E+00 | 1.155593E-02 | 2.599236E-01 |
| C3 | -1.454811E+01 | -2.869081E+00 | 8.182317E-03 | -2.344077E-01 |
| C4 | 1.517913E-01 | 3.096799E-02 | 1.531116E-04 | 2.565570E-03 |
| C5 | 8.269994E-03 | -2.662164E-02 | -2.630248E-05 | 1.388479E-04 |
| C6 | 1.195830E-01 | 2.970768E-02 | -2.976170E-05 | 1.926937E-03 |
| C7 | 5.325655E-04 | 1.252137E-04 | 1.466381E-06 | 9.607563E-06 |
| C8 | -1.901799E-04 | -2.009916E-04 | 7.866269E-08 | -3.116273E-06 |
| C9 | 2.322470E-05 | 1.763231E-04 | 6.212242E-07 | 3.176586E-07 |
| C10 | -3.747419E-04 | -9.338351E-05 | 8.425057E-09 | -6.040378E-06 |

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature